



Performance Data Sheet

AVD5545EXT

General Information

Model	AVD5545EXT	Refrigerant	R-22
Test Condition	ARI	Performance Test Voltage	230V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	3PH

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-15	Btu/h	12800	10800					
	Watts	1590	1660					
	Amps	6.21	6.22					
	Lb/h	166	146					
-10	Btu/h	15700	13600	11600				
	Watts	1770	1840	1890				
	Amps	6.50	6.57	6.59				
	Lb/h	202	181	163				
-5	Btu/h	18800	16500	14400	12500			
	Watts	1930	2010	2080	2120			
	Amps	6.77	6.90	6.98	7.00			
	Lb/h	239	218	199	181			
0	Btu/h	22000	19600	17300	15300	13400		
	Watts	2080	2180	2260	2310	2340		
	Amps	7.02	7.20	7.35	7.44	7.46		
	Lb/h	279	257	238	219	201		
5	Btu/h	25500	22900	20500	18300	16200		
	Watts	2220	2340	2430	2500	2540		
	Amps	7.25	7.49	7.70	7.86	7.95		
	Lb/h	321	299	279	259	241		
10	Btu/h	29300	26500	23900	21500	19200	17000	15000
	Watts	2340	2480	2590	2680	2750	2780	2770
	Amps	7.46	7.75	8.02	8.25	8.42	8.50	8.46
	Lb/h	367	344	323	303	283	263	243
15	Btu/h	33400	30400	27600	25000	22500	20100	17700
	Watts	2450	2600	2740	2850	2940	3000	3010
	Amps	7.65	7.99	8.32	8.62	8.86	9.02	9.07
	Lb/h	415	392	370	349	328	307	286
20	Btu/h	37900	34700	31600	28700	26000	23300	20800
	Watts	2520	2710	2870	3010	3130	3210	3250
	Amps	7.81	8.20	8.59	8.96	9.27	9.51	9.65
	Lb/h	467	443	421	399	377	355	332

25	Btu/h	42700	39200	36000	32800	29800	26900	24100
	Watts	2580	2790	2980	3160	3300	3410	3490
	Amps	7.95	8.39	8.84	9.27	9.65	9.97	10.2
	Lb/h	523	499	475	453	430	407	383
30	Btu/h	47900	44200	40700	37300	34000	30800	27700
	Watts	2600	2850	3070	3280	3460	3600	3710
	Amps	8.07	8.56	9.06	9.55	10.0	10.4	10.7
	Lb/h	583	558	534	510	487	462	437
35	Btu/h	53500	49600	45800	42100	38600	35100	31700
	Watts	2600	2880	3140	3380	3600	3780	3930
	Amps	8.16	8.70	9.25	9.80	10.3	10.8	11.2
	Lb/h	648	622	598	573	548	523	496
40	Btu/h	59600	55400	51300	47400	43500	39700	36000
	Watts	2560	2880	3180	3460	3720	3940	4130
	Amps	8.23	8.81	9.42	10.0	10.6	11.2	11.6
	Lb/h	717	691	666	640	615	588	560
45	Btu/h	66200	61700	57300	53100	48900	44800	40700
	Watts	2480	2850	3190	3520	3810	4080	4310
	Amps	8.27	8.90	9.56	10.2	10.9	11.5	12.1
	Lb/h	792	765	739	713	686	658	629
50	Btu/h	73300	68500	63800	59300	54800	50300	45900
	Watts	2370	2780	3170	3540	3890	4200	4470
	Amps	8.29	8.95	9.66	10.4	11.1	11.8	12.4
	Lb/h	872	845	818	791	763	734	703
55	Btu/h	80900	75800	70800	65900	61100	56300	51500
	Watts	2220	2670	3110	3530	3930	4290	4610
	Amps	8.28	8.98	9.74	10.5	11.3	12.1	12.8
	Lb/h	959	931	903	875	846	816	784

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.191173E+04	1.320958E+03	7.136907E+00	5.736272E+02
C2	8.683663E+02	5.904023E+00	1.363852E-02	7.984029E+00
C3	-5.152640E+02	3.312407E+00	-4.672028E-02	-5.611377E+00
C4	7.291879E+00	-8.078035E-01	-1.884353E-04	5.173236E-02
C5	-1.654008E+00	2.810276E-01	-1.666111E-04	1.492630E-02
C6	2.075257E+00	1.477475E-01	8.740430E-04	3.049884E-02
C7	4.017551E-02	-3.556198E-03	-8.997546E-07	4.457683E-04
C8	-2.926361E-02	6.437799E-03	-2.781369E-06	-1.012556E-05
C9	-9.184101E-03	1.364458E-04	7.481497E-06	-1.513984E-04
C10	-3.795487E-03	-8.724868E-04	-3.854150E-06	-7.990594E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature